



Service Repair Manual

Models

345B Series II Excavator

Product: EXCAVATOR

Model: 345B II EXCAVATOR CCC

Configuration: 345B Series II Excavator CCC00001-UP (MACHINE) POWERED BY 3176C Engine

Disassembly and Assembly 3176C and 3196 Engines for Caterpillar Built Machines

Media Number -REN1223-15

Publication Date -01/08/2015

Date Updated -03/08/2015

i01604601

Rocker Shaft and Pushrod - Remove

SMCS - 1102-011; 1208-011

Removal Procedure

Start By:

- A. Remove the valve mechanism cover. Refer to Disassembly and Assembly, "Valve Mechanism Cover - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

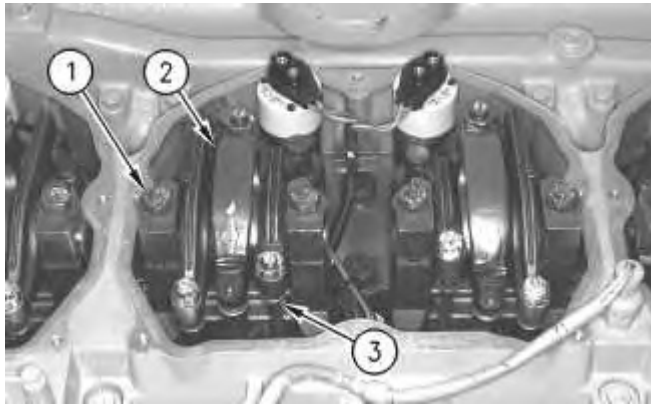


Illustration 1

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1. Place an identification mark on each rocker arm in order to identify the proper location in the engine for installation.
2. Remove bolts (1) and rocker arms (2) .
3. Remove push rods (3). Keep each push rod with the respective rocker arm.



Illustration 2

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4. Remove valve bridges (4) .

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i07141366

Rocker Shaft and Pushrod - Install

SMCS - 1102-012; 1208-012

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Inspect the condition of the following items: rocker arms, valve bridges, and push rods. Replace the parts, if necessary.

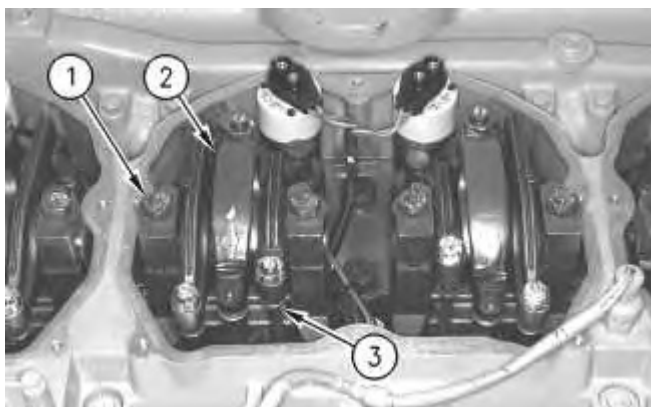


Illustration 1

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2. Install push rods (3) in the correct location in the engine.
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Illustration 2

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3. Install valve bridges (4). Lubricate the top surface of the valve bridges with clean engine oil.
4. Place rocker arms (2) in the correct locations that were marked during removal. Install bolts (1) and tighten to a torque of $100 \pm 20 \text{ N}\cdot\text{m}$ ($74 \pm 15 \text{ lb ft}$).

End By:

- a. Install the valve mechanism cover. Refer to Disassembly and Assembly, "Valve Mechanism Cover - Remove and Install".

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